PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-124934
(43)Date of publication of application : 14.05.1990

(51)Int.Cl. C08G 64/30

(21)Application number : 01-177347
(22)Date of filing : 10.07.1989

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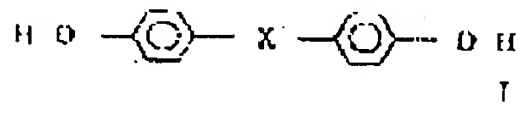
(30)Priority
Priority number : 63172297 Priority date : 11.07.1988 Priority country : JP

(54) PREPARATION OF POLYCARBONATE

(57)Abstract:
PURPOSE: To obtain a polycarbonate with excellent heat resistance, water resistance and color tone and high MW by performing soln.-polycondensation of an arom. dihydroxyl compd. and a diester carbonate in the presence of a specified catalyst.
CONSTITUTION: A catalyst is obtd. by combining 10-6-10-1mol of a basic nitrogen compd. (e.g., tetramethylammonium hydroxide), 10-8-10-3mol of an alkali (earth) metal compd. (e.g., NaOH) and, if necessary, 10-8-10-1mol of boric acid (diester) (e.g., trimethyl borate) based on 1mol of the arom. dihydroxy compd. Then, 1mol of an arom. dihydroxyl compd. of formula I (wherein X is formula II or III, -O-, -S-, -SO- or -SO2-; R1-2 is each H or a monovalent hydrocarbon group; R3 is a divalent hydrocarbon group; the arom. nuclei may have each monovalent hydrocarbon group) is reacted with 1.01-1.30mol of a diester carbonate (e.g., diphenyl carbonate) in the presence of said catalyst at 80-250° C for 0-5hr and the polycondensation thereof is then performed at 240-320° C under a vacuum of 1mmHg or lower.



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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or

application converted registration]
[Date of final disposal for application]
[Patent number]
[Date of registration]
[Number of appeal against examiner's decision of rejection]
[Date of requesting appeal against examiner's decision of rejection]
[Date of extinction of right]